

WEST**End of Result Set**

L2: Entry 1 of 1

File: DWPI

Jul 22, 1991

DERWENT-ACC-NO: 1992-355279

DERWENT-WEEK: 199243

COPYRIGHT 2003 DERWENT INFORMATION LTD

TITLE: Refining gold@ and silver@ from composite ores - involves mixing ore with flux composed of sodium hydroxide, potassium nitrate, calcium oxide, borax, silica, sodium sulphate, etc.

INVENTOR: BANG, S H**PATENT-ASSIGNEE:**

ASSIGNEE	CODE
BANG S	BANGI

PRIORITY-DATA: 1988KR-0010533 (August 19, 1988)**PATENT-FAMILY:**

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>KR 9105056 B</u>	July 22, 1991		000	C22B011/00

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
KR 9105056B	August 19, 1988	1988KR-0010533	

INT-CL (IPC): C22B 11/00**RELATED-ACC-NO:** 1992-355280**ABSTRACTED-PUB-NO:** KR 9105056B**BASIC-ABSTRACT:**

The method for refining of Au and Ag from ore comprises (1) mixing it with a flux (ore:1000, NaOH:200-300, KNO₃:30-50, Zn-Cu alloy powder (or PbO):150-250, CaO:300-400, NaHCO₃:280-320, Borax:80-150, C:40-60, fluorite: 100- 200, silica:100-150, Na₂SO₄ or Na₂S₃.7H₂O or Na₂S:80-150 (in wt.%); (2) melting it at 1800-2000 deg.C and separating by maintaining melts for 90-100 min; (3) after remelting and quenching, thus obtained granular metal is dissolved by nitrohydrochloric acid and AgCl is pptd. by air cooling for 24 hrs. This is followed by filtering AgCl from the soln. which is neutralised with urea or H₂O₂, then precipitating Au by air cooling of the neutralised soln. projected by Na₂SO₃.7H₂O, and purifying Au and Ag p.p.t. by ZnO and H₂SO₄; (4) roasting a mixture of Au, Ag and fluorite to 5% of each metal at 780-820 deg.C, and (5) refining of Au and Ag with flux (Borax:35, NaHCO₃:35-45, silica:15-20, C(purity:99.0-99.7%):5-6, in wt.%, when metal is 100 wt.%) by melting at 1000-1200 deg.C in a crucible

TITLE-TERMS: REFINE GOLD@ SILVER@ COMPOSITE ORE MIX ORE FLUX COMPOSE SODIUM HYDROXIDE POTASSIUM NITRATE CALCIUM OXIDE BORAX SILICA SODIUM SULPHATE**DERWENT-CLASS:** M25**BEET MANABLE COPY**